

Manchester Urban Ponds Restoration Program

Average Water Quality Measurements Tables 2000 – 2009

Average Epilimnetic (<i>Top Layer of Water</i>) Total Phosphorus Measurements (mg/l)										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crystal Lake	0.011	0.012	0.013	0.010	0.010	0.014	0.017	0.013	0.010	0.013
Dorrs Pond	0.045	0.024	0.023	0.024	0.030	0.026	0.030	0.022	0.027	0.028
Maxwell Pond/ Black Brook	0.014	0.018	0.014	0.018	0.020	0.020	0.018	0.022	0.023	0.025
Nutts Pond	0.017	0.023	0.024	0.030	0.020	0.028	0.024	0.023	0.019	0.018
Pine Island Pond	0.024	0.016	0.026	0.029	0.020	0.020	0.026	0.022	0.029	0.021
Stevens Pond	0.019	0.025	0.018	0.017	0.020	0.017	0.031	0.030	0.042	0.036

Average Hypolimnetic (<i>Bottom Layer of Water</i>) Total Phosphorus Measurements (mg/l)										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crystal Lake	0.025	0.017	0.014	0.018	0.018	0.013	0.017	0.018	0.017	0.021
Dorrs Pond	0.088	0.029	0.127	0.022	0.030	0.027	0.029	N/A	N/A	N/A
Nutts Pond	0.089	0.097	0.179	0.109	0.080	0.064	0.088	0.045	0.039	0.051
Pine Island Pond	0.028	0.030	0.030	0.031	0.040	0.032	0.032	0.055	0.072	0.029
Stevens Pond	0.042	0.023	0.035	0.027	0.080	0.027	0.034	0.047	0.048	0.066

Average Epilimnetic (<i>Top Layer of Water</i>) Conductivity Measurements (uMhos/cm)										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crystal Lake	418	439	442	473	459	511	383	359	422	380
Dorrs Pond	408	831	866	759	644	842	455	631	512	517
Maxwell Pond/ Black Brook	122	155	159	180	151	148	101	131	110	95
Nutts Pond	582	714	588	786	599	877	469	545	620	610
Pine Island Pond	287	383	316	339	256	324	235	252	289	207
Stevens Pond	769	1149	1172	1258	860	1099	578	785	716	688

Average Hypolimnetic (*Bottom Layer of Water*) Conductivity Measurements (uMhos/cm)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crystal Lake	417	481	433	526	454	525	385	351	435	685
Dorrs Pond	432	825	904	782	653	625	520	N/A	N/A	N/A
Nutts Pond	1769	1960	1798	2018	2193	2615	2160	1124	1544	2447
Pine Island Pond	305	350	318	306	268	320	237	221	328	251
Stevens Pond	792	1634	1126	1606	1041	1742	593	838	1451	1164

Average Chlorophyll-a Measurements (mg/m³)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crystal Lake	3.39	4.75	2.66	3.14	4.62	1.79	5.95	2.43	4.23	8.16
Dorrs Pond	30.84	14.75	9.86	18.03	15.09	8.34	12.13	8.83	16.52	8.50
Maxwell Pond/ Black Brook	1.55	3.17	1.68	1.65	2.30	2.33	1.89	5.67	2.42	N/A
Nutts Pond	24.84	14.01	14.34	17.13	19.31	13.49	19.53	4.67	6.96	4.51
Pine Island Pond	8.04	13.20	8.23	2.21	8.97	8.46	11.04	10.63	9.81	3.04
Stevens Pond	8.66	6.26	13.88	4.28	9.44	3.04	63.57	35.47	16.29	12.35

Average Epilimnetic (*Top Layer of Water*) Turbidity Measurements (NTU)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crystal Lake	0.49	0.89	3.22	0.79	1.64	0.82	1.41	1.79	1.04	1.30
Dorrs Pond	3.76	3.70	1.86	3.42	4.61	2.45	3.13	2.51	3.49	2.47
Maxwell Pond/ Black Brook	2.03	3.40	1.10	2.57	2.12	1.69	1.63	2.09	2.09	2.43
Nutts Pond	0.93	1.80	3.78	2.80	5.32	2.64	1.71	1.43	1.54	1.15
Pine Island Pond	1.34	1.70	3.19	3.54	3.01	2.12	2.65	2.38	2.51	1.56
Stevens Pond	2.36	2.20	2.38	2.63	2.30	1.64	2.98	2.30	2.73	1.37

Average Secchi Disk (*Without View Scope*) Transparency Measurements (m)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crystal Lake	4.3	3.6	3.2	5.0	3.9	5.4	4.2	4.1	3.4	3.4
Dorrs Pond	1.1	1.3	1.9	1.7	1.7	2.0	2.0	2.0	1.6	1.8
Maxwell Pond/ Black Brook	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	N/A
Nutts Pond	3.1	2.4	2.3	2.3	1.8	2.5	2.5	3.5	2.8	3.4
Pine Island Pond	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.8	2.0	2.0
Stevens Pond	2.6	2.5	2.9	2.9	2.6	3.2	2.3	2.0	1.9	2.4